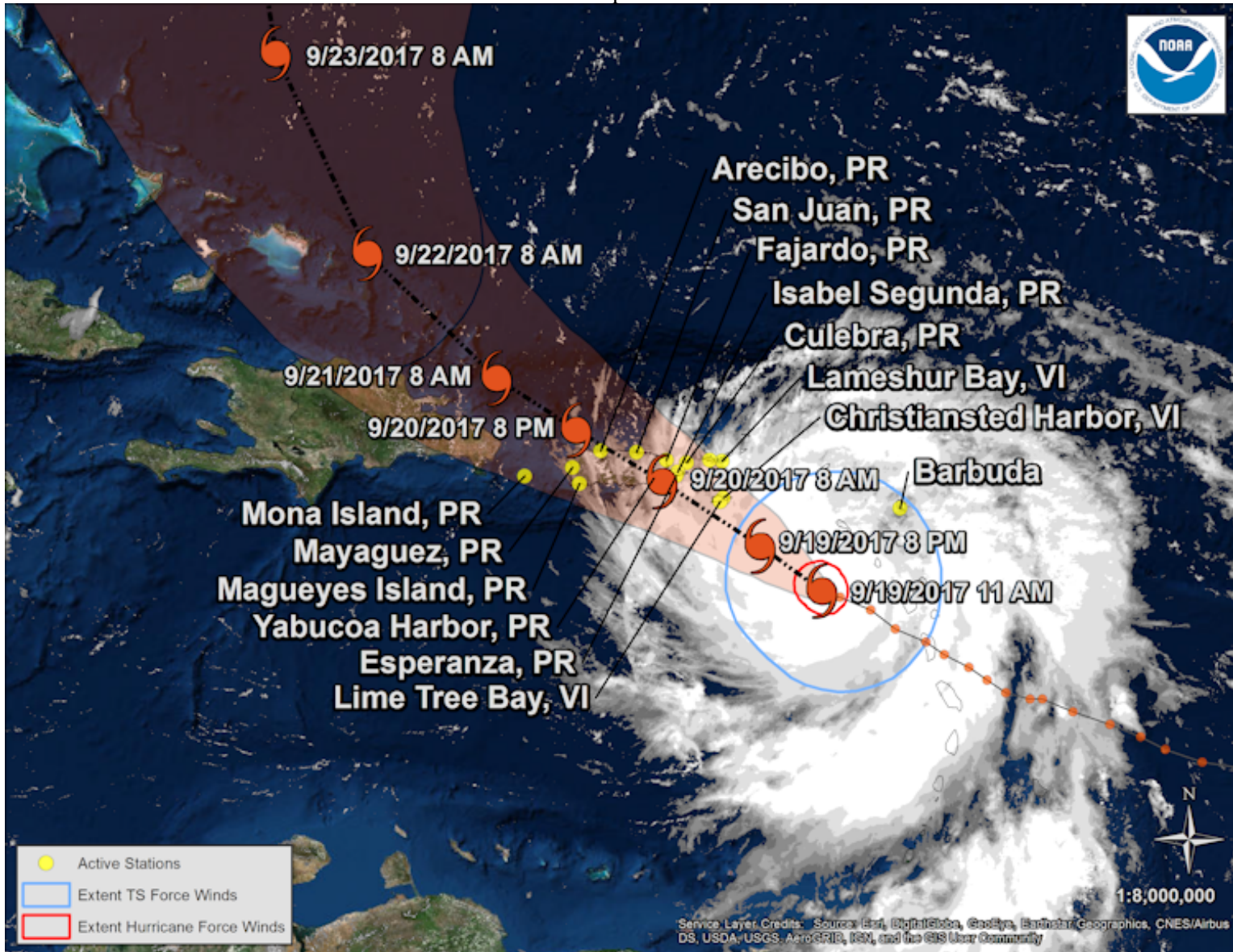




# Hurricane MARIA QuickLook Posted: 12:00 AST 09/19/2017

## NOAA and NOAA Partnership Stations Relative to the Storm



## Storm Analysis

As of 9/19/2017 12:00 AST, water levels surrounding Barbuda, the U.S. Virgin Islands and Puerto Rico are measuring within 1 foot of normal tide levels. Winds generally range between 10 and 20 knots with gusts slightly higher. Barometric pressure is slowly decreasing across the region as Maria approaches from the southeast.

Water Level and Meteorological plots available below are updated automatically. A line denoting Mean Higher High Water (MHHW) is displayed to provide an approximate indication of when flooding inundation may occur.

For additional data, please see the Center for Operational Oceanographic Products & Services website. For more information or archived products and reports, please see the Storm QuickLook Homepage.

Analyst: RCL

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SELECT NATIONAL HURRICANE CENTER ADVISORY INFORMATION:

Hurricane Maria Advisory Number 14

NWS National Hurricane Center Miami FL

1100 AM AST Tue Sep 19 2017

...POTENTIALLY CATASTROPHIC HURRICANE MARIA CONTINUES WEST-  
NORTHWESTWARD TOWARD THE VIRGIN ISLANDS AND PUERTO RICO...

...PREPARATIONS AGAINST LIFE-THREATENING STORM SURGE AND RAINFALL  
FLOODING AND DESTRUCTIVE WINDS SHOULD BE RUSHED TO COMPLETION...

SUMMARY OF 1100 AM AST...1500 UTC...INFORMATION

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LOCATION...16.3N 63.1W

ABOUT 115 MI...180 KM W OF GUADELOUPE

ABOUT 150 MI...240 KM SE OF ST. CROIX

MAXIMUM SUSTAINED WINDS...160 MPH...260 KM/H

PRESENT MOVEMENT...WNW OR 300 DEGREES AT 10 MPH...17 KM/H

MINIMUM CENTRAL PRESSURE...927 MB...27.37 INCHES

## WATCHES AND WARNINGS

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### CHANGES WITH THIS ADVISORY:

None.

### SUMMARY OF WATCHES AND WARNINGS IN EFFECT:

A Hurricane Warning is in effect for...

- \* Guadeloupe
- \* Dominica
- \* St. Kitts, Nevis, and Montserrat
- \* U.S. Virgin Islands
- \* British Virgin Islands
- \* Puerto Rico, Culebra, and Vieques

A Tropical Storm Warning is in effect for...

- \* Antigua and Barbuda
- \* Saba and St. Eustatius
- \* St. Maarten
- \* Anguilla
- \* Martinique

A Hurricane Watch is in effect for...

- \* Saba and St. Eustatius
- \* St. Maarten

\* St. Martin and St. Barthelemy

\* Anguilla

\* Isla Saona to Puerto Plata

A Tropical Storm Watch is in effect for...

\* West of Puerto Plata to the northern Dominican Republic-Haiti border

A Hurricane Warning means that hurricane conditions are expected somewhere within the warning area. Preparations to protect life and property should be rushed to completion.

A Tropical Storm Warning means that tropical storm conditions are expected somewhere within the warning area.

A Hurricane Watch means that hurricane conditions are possible within the watch area. A watch is typically issued 48 hours before the anticipated first occurrence of tropical-storm-force winds, conditions that make outside preparations difficult or dangerous.

A Tropical Storm Watch means that tropical storm conditions are possible within the watch area, generally within 48 hours.

Interests elsewhere in Hispaniola, the southeastern Bahamas, and the Turks and Caicos Islands should monitor the progress of Maria. Additional watches and warnings may be required today.

For storm information specific to your area in the United States, including possible inland watches and warnings, please monitor products issued by your local National Weather Service forecast office. For storm information specific to your area outside the United States, please monitor products issued by your national meteorological service.

## DISCUSSION AND 48-HOUR OUTLOOK

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At 1100 AM AST (1500 UTC), the eye of Hurricane Maria was located near latitude 16.3 North, longitude 63.1 West. Maria is moving toward the west-northwest near 10 mph (17 km/h), and this general motion is expected to continue through Wednesday night. On the forecast track, the eye of Maria will move over the northeastern Caribbean Sea today, and then pass near or over the Virgin Islands and Puerto Rico on Wednesday.

Maximum sustained winds are near 160 mph (260 km/h) with higher gusts. Maria is a potentially catastrophic category 5 hurricane on the Saffir-Simpson Hurricane Wind Scale. Some fluctuations in intensity are likely during the next day or two, but Maria is forecast to remain an extremely dangerous category 4 or 5 hurricane until it moves near or over the Virgin Islands and Puerto Rico.

Hurricane-force winds extend outward up to 35 miles (55 km) from the center and tropical-storm-force winds extend outward up to 140 miles (220 km). NOAA buoy 42060, located a little west of the center, recently reported 1-min average winds of 69 mph (111 km/h) and a wind gust of 83 mph (133 km/h).

The minimum central pressure based on data from an Air Force Reserve Hurricane Hunter aircraft is 927 mb (27.37 inches).

#### HAZARDS AFFECTING LAND

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WIND: Hurricane conditions will continue to spread throughout portions of the hurricane warning area in the Leeward Islands this morning, and spread into the Virgin Islands and Puerto Rico tonight and Wednesday. Tropical storm conditions are occurring over the remainder of the Leeward Islands, and should spread into the Virgin Islands and Puerto Rico this afternoon and tonight. Hurricane conditions are possible within the hurricane watch area in the Dominican Republic late Wednesday, with tropical storm conditions possible by early Wednesday. Tropical storm conditions are possible in the tropical storm watch area in the Dominican Republic on Wednesday.

Wind speeds atop and on the windward sides of hills and mountains and on high-rise buildings could be much stronger than the near-

surface winds indicated in this advisory.

**STORM SURGE:** A dangerous storm surge accompanied by large and destructive waves will raise water levels by as much as 7 to 11 feet above normal tide levels in the hurricane warning area near where the center of Maria moves across the Leeward Islands and the British Virgin Islands.

The combination of a dangerous storm surge and the tide will cause normally dry areas near the coast to be flooded by rising waters moving inland from the shoreline. The water is expected to reach the following heights above ground if the peak surge occurs at the time of high tide...

Puerto Rico and the U.S. Virgin Islands...6 to 9 ft

The deepest water will occur along the immediate coast near and to the north and east of the landfall location, where the surge will be accompanied by large and destructive waves. Surge-related flooding depends on the relative timing of the surge and the tidal cycle, and can vary greatly over short distances. For information specific to your area, please see products issued by your local National Weather Service forecast office.

**RAINFALL:** Maria is expected to produce the following rain accumulations through Thursday:

Central and southern Leeward Islands...10 to 15 inches, isolated 20 inches.

U.S. and British Virgin Islands...10 to 15 inches, isolated 20 inches.

Puerto Rico...12 to 18 inches, isolated 25 inches.

Northern Leeward Islands from Barbuda to Anguilla...4 to 8 inches, isolated 10 inches.

Windward Islands and Barbados...2 to 4 inches, isolated 6 inches.

Eastern Dominican Republic...4 to 8 inches, isolated 12 inches.

Rainfall on all of these islands will cause life-threatening flash floods and mudslides.

SURF: Swells generated by Maria are affecting the Lesser Antilles.

These swells are likely to cause life-threatening surf and rip current conditions. Please consult products from your local weather office.

NEXT ADVISORY

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Next intermediate advisory at 200 PM AST.

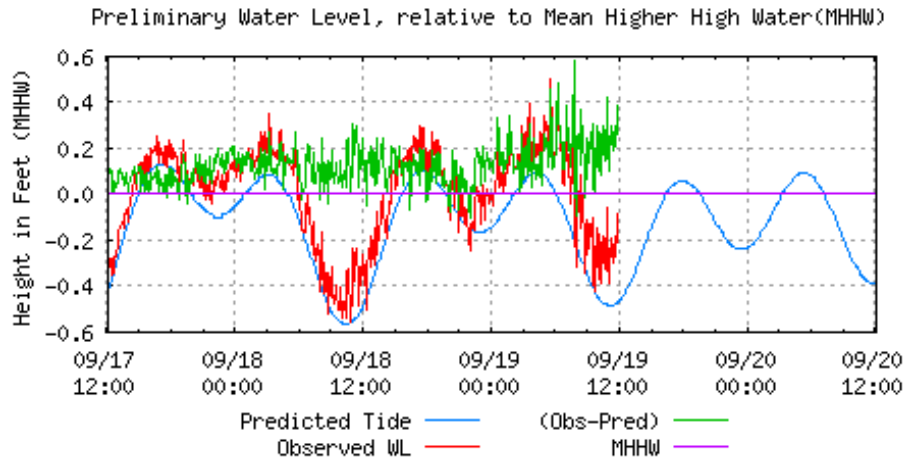
Next complete advisory at 500 PM AST.

Forecaster Beven

For the purpose of timely release, data contained within this QuickLook have undergone a "limited" NOS Quality Assurance/Control; however, the data have not yet undergone final verification. All data subject to NOS verification.

Jump to: [Barbuda - Water Level](#), [Barbuda - Barometric](#), [Christiansted Harbor, St Croix - Water Level](#), [Christiansted Harbor, St Croix - Winds](#), [Christiansted Harbor, St Croix - Barometric](#), [Lime Tree Bay, St. Croix - Water Level](#), [Lime Tree Bay, St. Croix - Winds](#), [Lime Tree Bay, St. Croix - Barometric](#), [Lameshur Bay, St John - Water Level](#), [Lameshur Bay, St John - Barometric](#), [Culebra - Water Level](#), [Culebra - Barometric](#), [Esperanza, Vieques Island - Water Level](#), [Esperanza, Vieques Island - Winds](#), [Esperanza, Vieques Island - Barometric](#), [Isabel Segunda, Vieques Island - Water Level](#), [Isabel Segunda, Vieques Island - Winds](#), [Fajardo - Water Level](#), [Fajardo - Winds](#), [Yabucoa Harbor - Water Level](#), [Yabucoa Harbor - Winds](#), [San Juan, La Puntilla, San Juan Bay - Water Level](#), [San Juan, La Puntilla, San Juan Bay - Winds](#), [San Juan, La Puntilla, San Juan Bay - Barometric](#), [Arecibo - Water Level](#), [Arecibo - Winds](#), [Arecibo - Barometric](#), [Magueyes Island - Water Level](#), [Magueyes Island - Winds](#), [Magueyes Island - Barometric](#), [Mayaguez - Water Level](#), [Mayaguez - Winds](#), [Mayaguez - Barometric](#), [Mona Island - Water Level](#), [Mona Island - Barometric](#)

# NOAA/NOS/CO-OPS 9761115 Barbuda



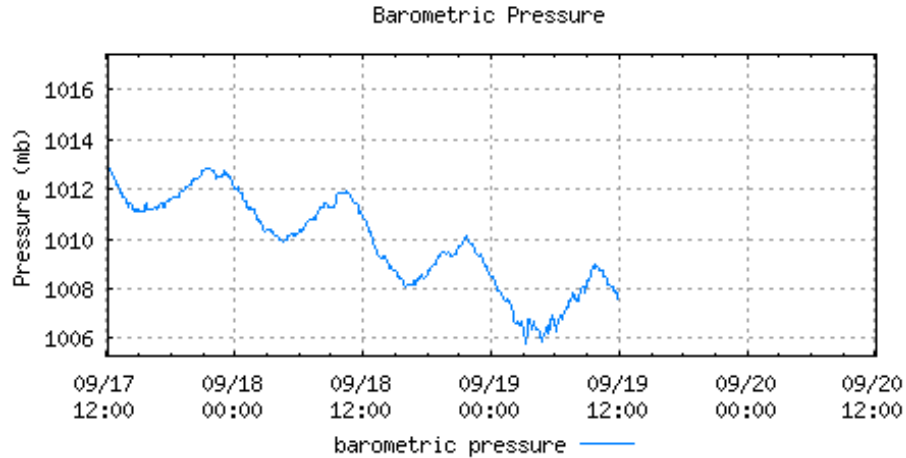
Last Observed Sample: 09/19/2017 12:00 (AST). Data relative to MHHW

Observed: -0.12 ft. Predicted: -0.47 ft. Residual: 0.35 ft.

Historical Maximum Water Level: Aug 23 2012, 1.05 ft.

Next High Tide: 09/19/2017 17:55 (AST), 0.06 ft.

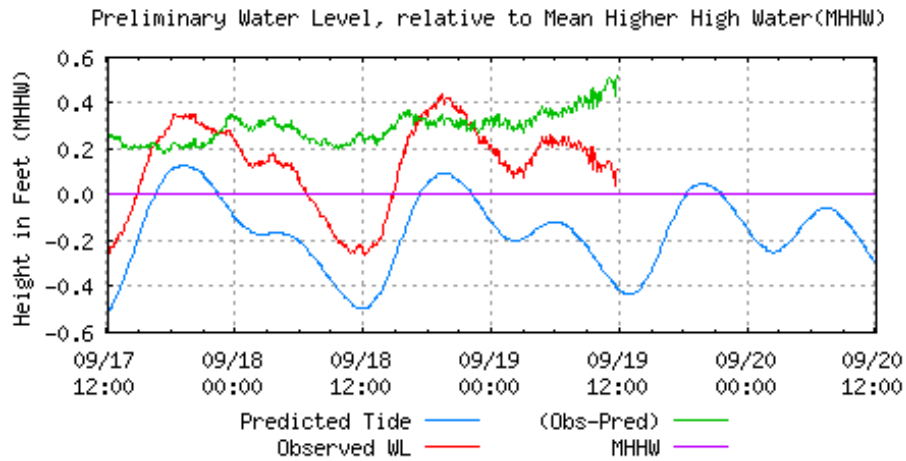
# NOAA/NOS/CO-OPS 9761115 Barbuda



Last Observed Sample: 09/19/2017 12:00 (AST)

Barometric Pressure: 1007.6 mb

NOAA/NOS/CO-OPS 9751364 Christiansted Harbor, St Croix, VI



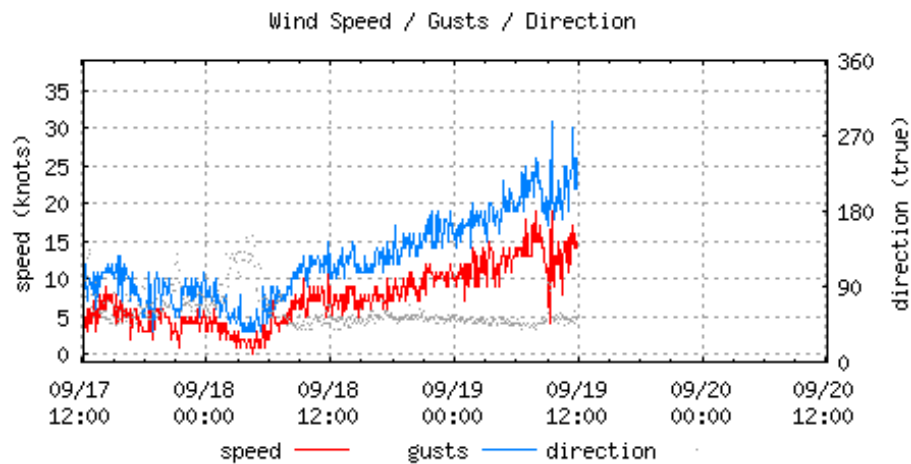
Last Observed Sample: 09/19/2017 12:00 (AST). Data relative to MHHW

Observed: 0.10 ft. Predicted: -0.41 ft. Residual: 0.51 ft.

Historical Maximum Water Level: Oct 16 2008, 1.17 ft.

Next High Tide: 09/19/2017 19:48 (AST), 0.05 ft.

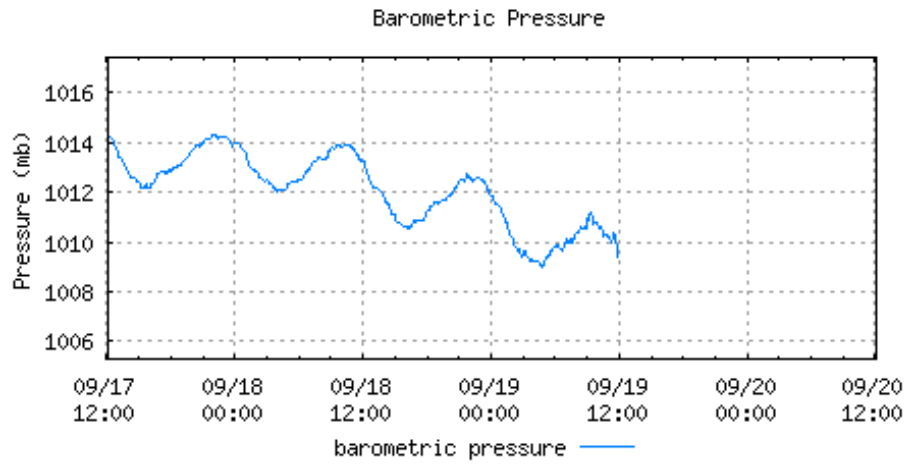
NOAA/NOS/CO-OPS 9751364 Christiansted Harbor, St Croix, VI



Last Observed Sample: 09/19/2017 12:00 (AST)

Wind Speed: 11 knots Gusts: 19 knots Direction: 51° T

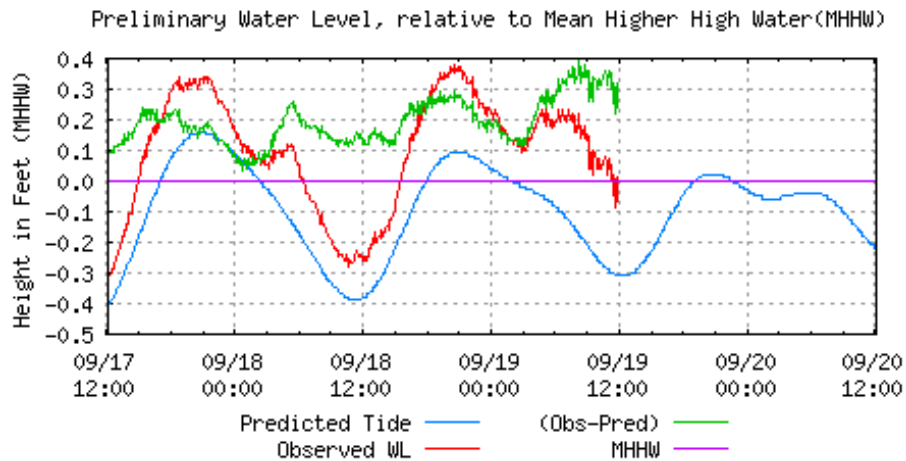
NOAA/NOS/CO-OPS 9751364 Christiansted Harbor, St Croix, VI



Last Observed Sample: 09/19/2017 12:00 (AST)

Barometric Pressure: 1009.2 mb

NOAA/NOS/CO-OPS 9751401 Lime Tree Bay, St. Croix, VI



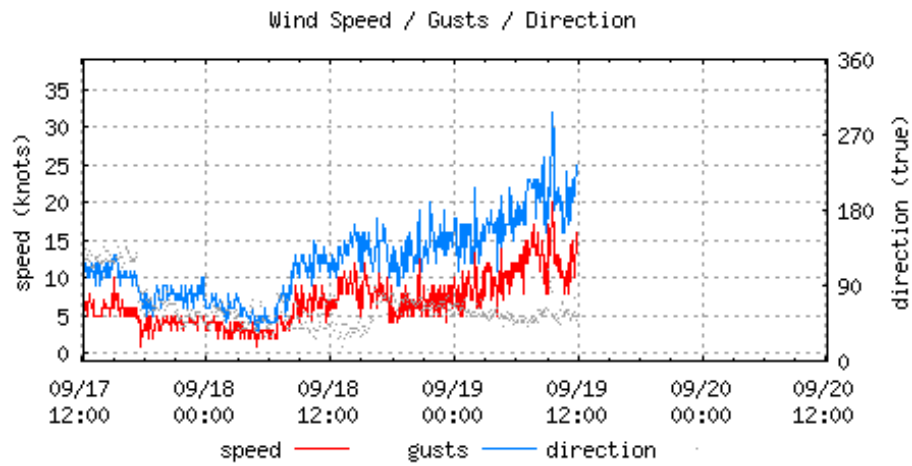
Last Observed Sample: 09/19/2017 12:00 (AST). Data relative to MHHW

Observed: 0.00 ft. Predicted: -0.31 ft. Residual: 0.31 ft.

Historical Maximum Water Level: Nov 17 1999, 1.88 ft.

Next High Tide: 09/19/2017 20:43 (AST), 0.02 ft.

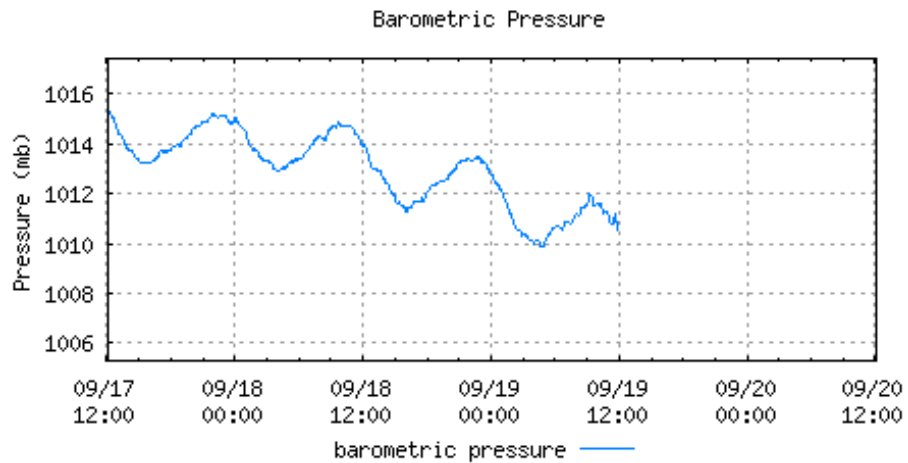
NOAA/NOS/CO-OPS 9751401 Lime Tree Bay, St. Croix, VI



Last Observed Sample: 09/19/2017 12:00 (AST)

Wind Speed: 13 knots Gusts: 22 knots Direction: 52° T

NOAA/NOS/CO-OPS 9751401 Lime Tree Bay, St. Croix, VI

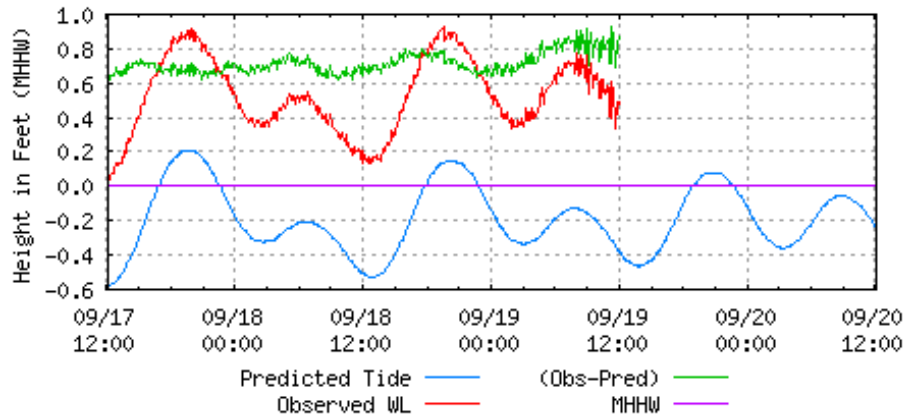


Last Observed Sample: 09/19/2017 12:00 (AST)

Barometric Pressure: 1010.0 mb

NOAA/NOS/CO-OPS 9751381 Lameshur Bay, St John, VI

Preliminary Water Level, relative to Mean Higher High Water(MHHW)



Last Observed Sample: 09/19/2017 12:06 (AST). Data relative to MHHW

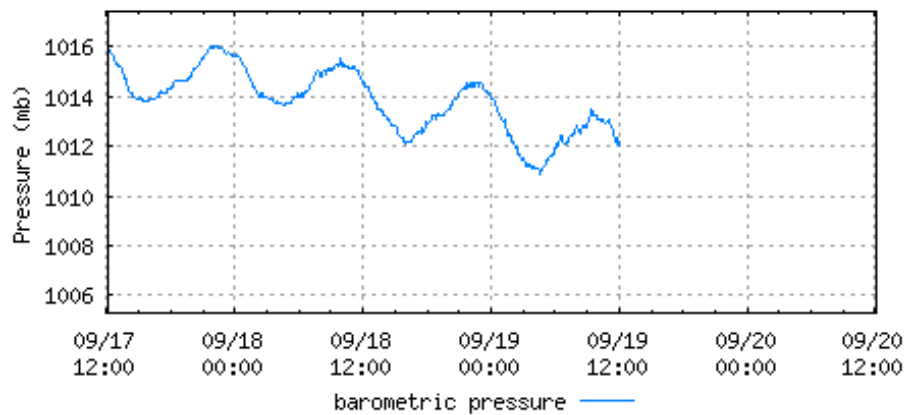
Observed: 0.43 ft. Predicted: -0.39 ft. Residual: 0.82 ft.

Historical Maximum Water Level: Aug 30 2010, 0.89 ft.

Next High Tide: 09/19/2017 20:44 (AST), 0.08 ft.

NOAA/NOS/CO-OPS 9751381 Lameshur Bay, St John, VI

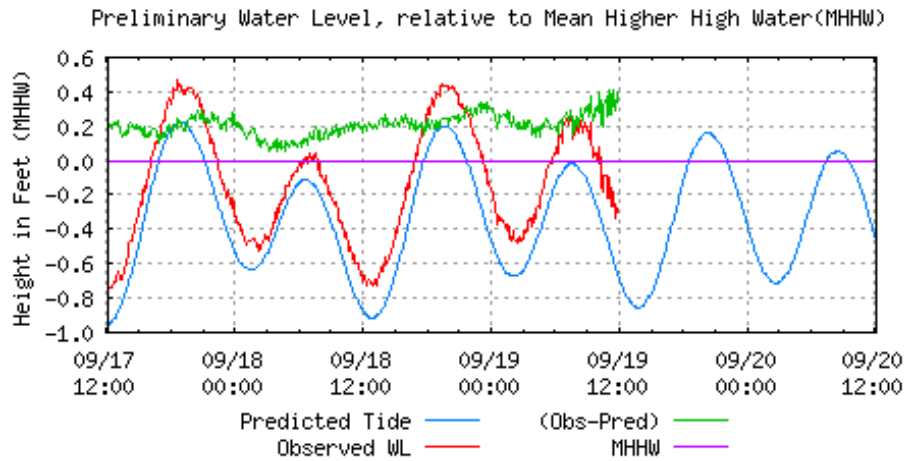
Barometric Pressure



Last Observed Sample: 09/19/2017 12:06 (AST)

Barometric Pressure: 1011.8 mb

NOAA/NOS/CO-OPS 9752235 Culebra, PR



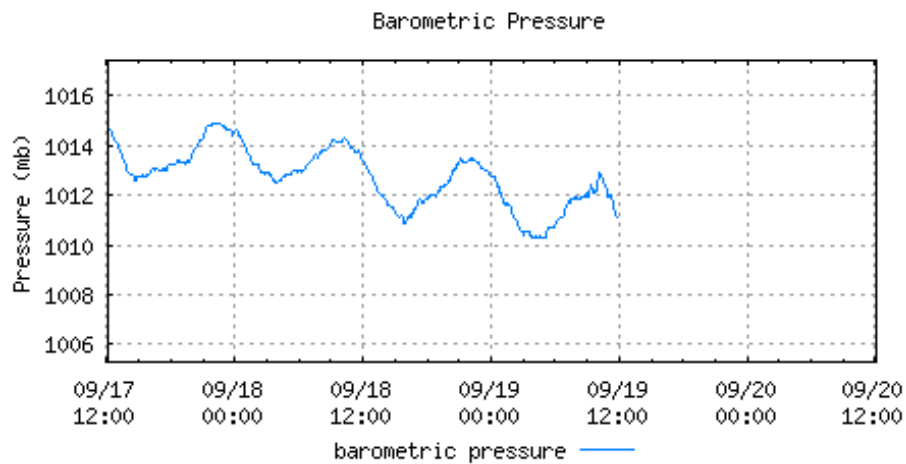
Last Observed Sample: 09/19/2017 12:00 (AST). Data relative to MHHW

Observed: -0.28 ft. Predicted: -0.68 ft. Residual: 0.40 ft.

Historical Maximum Water Level: Nov 6 2006, 0.84 ft.

Next High Tide: 09/19/2017 20:18 (AST), 0.16 ft.

NOAA/NOS/CO-OPS 9752235 Culebra, PR

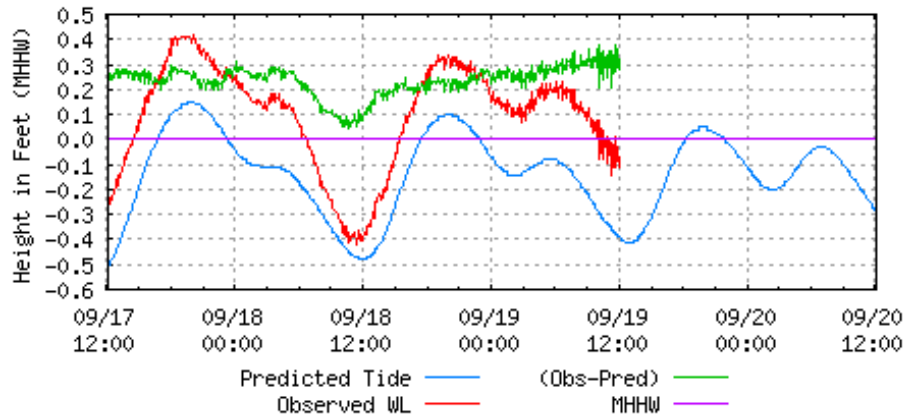


Last Observed Sample: 09/19/2017 12:00 (AST)

Barometric Pressure: 1011.2 mb

NOAA/NOS/CO-OPS 9752695 Esperanza, Vieques Island, PR

Preliminary Water Level, relative to Mean Higher High Water(MHHW)



Last Observed Sample: 09/19/2017 12:06 (AST). Data relative to MHHW

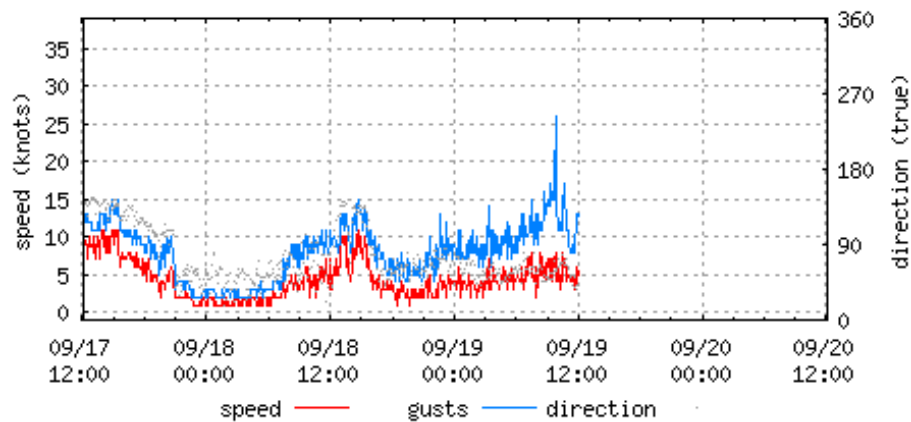
Observed: -0.04 ft. Predicted: -0.39 ft. Residual: 0.35 ft.

Historical Maximum Water Level: Aug 22 2011, 0.99 ft.

Next High Tide: 09/19/2017 19:49 (AST), 0.05 ft.

NOAA/NOS/CO-OPS 9752695 Esperanza, Vieques Island, PR

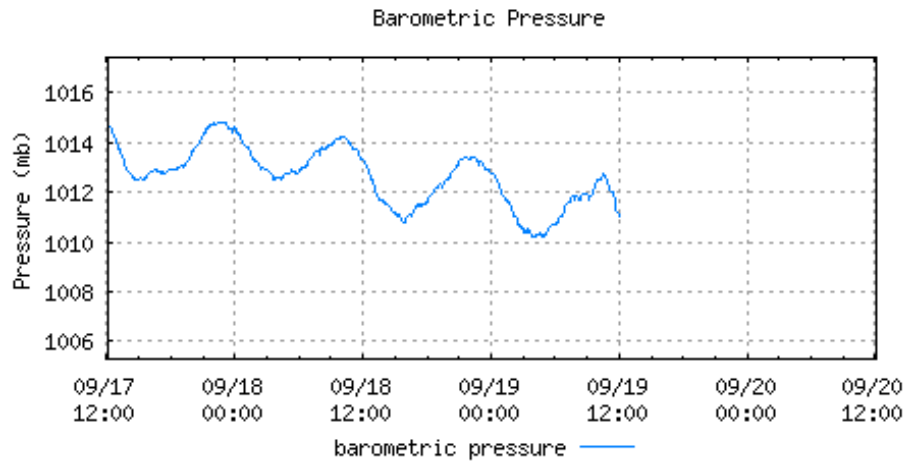
Wind Speed / Gusts / Direction



Last Observed Sample: 09/19/2017 12:06 (AST)

Wind Speed: 7 knots Gusts: 14 knots Direction: 43° T

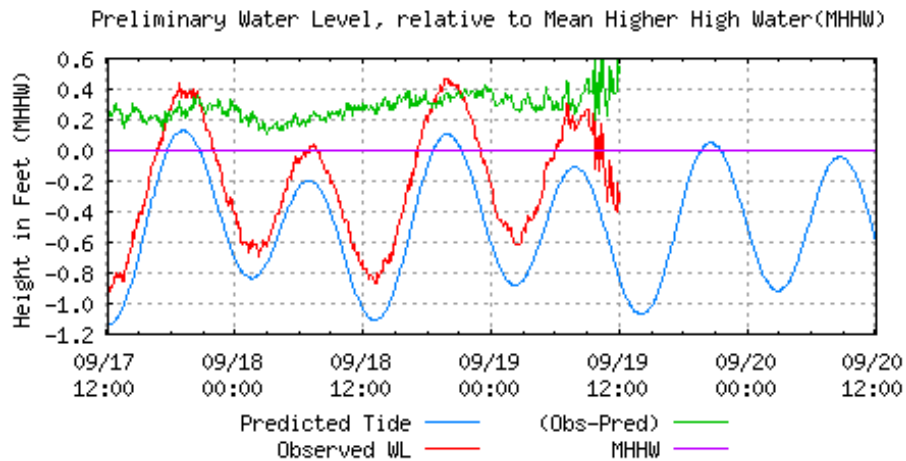
NOAA/NOS/CO-OPS 9752695 Esperanza, Vieques Island, PR



Last Observed Sample: 09/19/2017 12:06 (AST)

Barometric Pressure: 1010.9 mb

NOAA/NOS/CO-OPS 9752619 Isabel Segunda, Vieques Island, PR



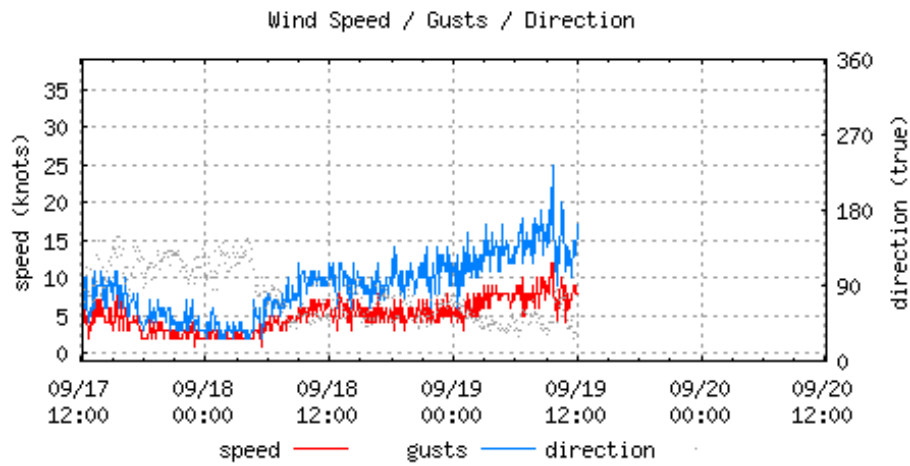
Last Observed Sample: 09/19/2017 12:06 (AST). Data relative to MHHW

Observed: -0.38 ft. Predicted: -0.85 ft. Residual: 0.47 ft.

Historical Maximum Water Level: n/a

Next High Tide: 09/19/2017 20:34 (AST), 0.05 ft.

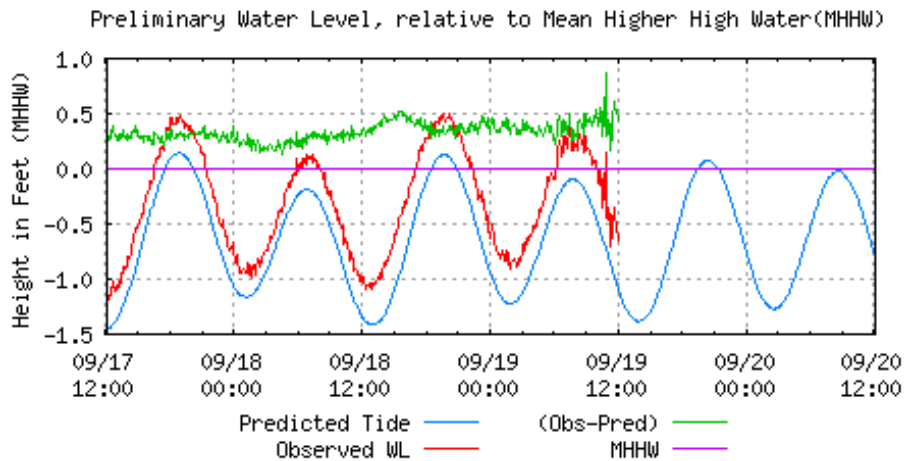
NOAA/NOS/CO-OPS 9752619 Isabel Segunda, Vieques Island, PR



Last Observed Sample: 09/19/2017 12:06 (AST)

Wind Speed: 9 knots Gusts: 16 knots Direction: 47° T

NOAA/NOS/CO-OPS 9753216 Fajardo, PR



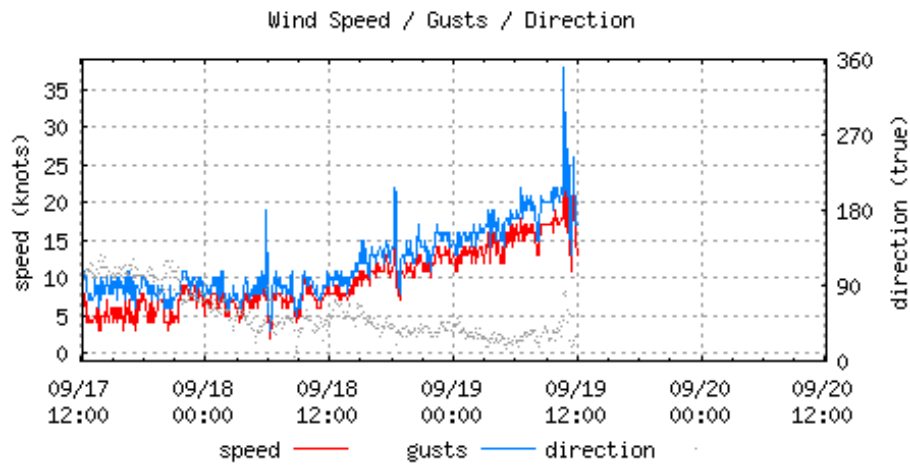
Last Observed Sample: 09/19/2017 12:06 (AST). Data relative to MHHW

Observed: -0.66 ft. Predicted: -1.12 ft. Residual: 0.46 ft.

Historical Maximum Water Level: Aug 30 2010, 0.84 ft.

Next High Tide: 09/19/2017 20:24 (AST), 0.08 ft.

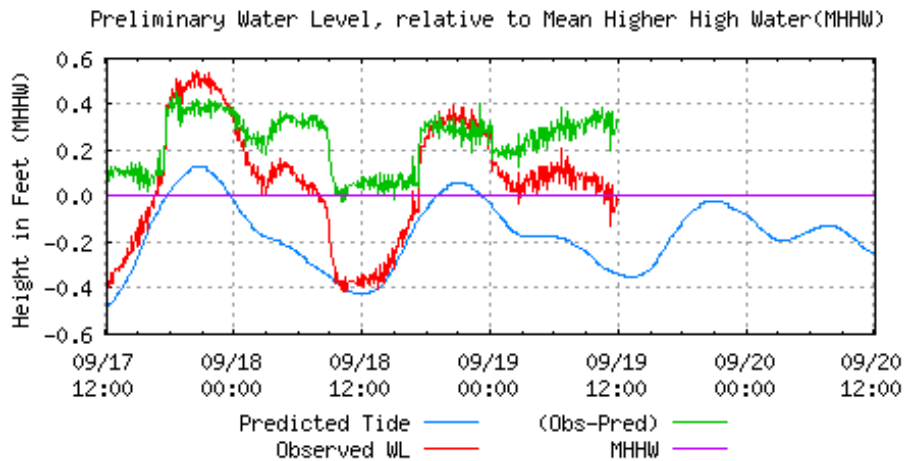
NOAA/NOS/CO-OPS 9753216 Fajardo, PR



Last Observed Sample: 09/19/2017 12:06 (AST)

Wind Speed: 15 knots Gusts: 18 knots Direction: 35° T

NOAA/NOS/CO-OPS 9754228 Yabucoa Harbor, PR



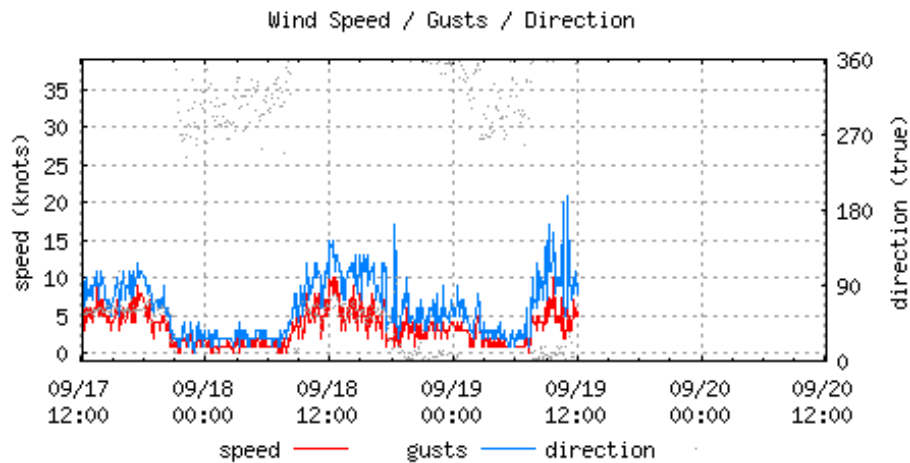
Last Observed Sample: 09/19/2017 12:06 (AST). Data relative to MHHW

Observed: -0.05 ft. Predicted: -0.35 ft. Residual: 0.30 ft.

Historical Maximum Water Level: n/a

Next High Tide: 09/19/2017 20:53 (AST), -0.02 ft.

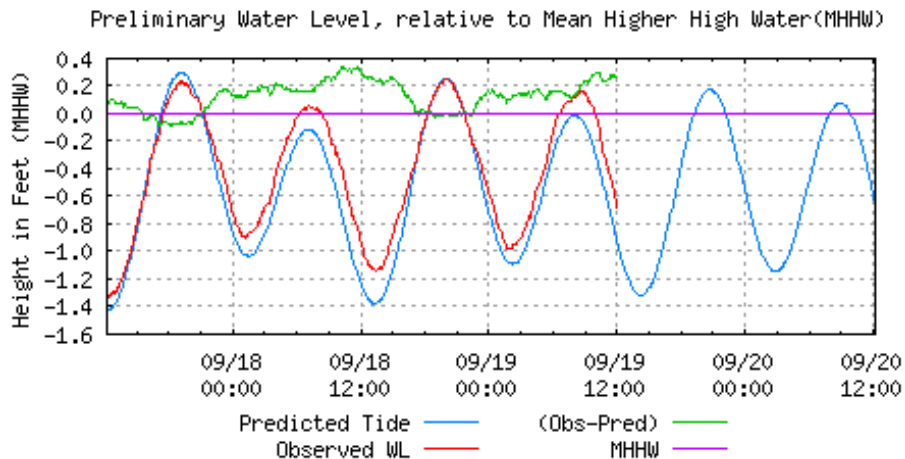
NOAA/NOS/CO-OPS 9754228 Yabucoa Harbor, PR



Last Observed Sample: 09/19/2017 12:06 (AST)

Wind Speed: 5 knots Gusts: 9 knots Direction: 11° T

NOAA/NOS/CO-OPS 9755371 San Juan, La Puntilla, San Juan Bay, PR



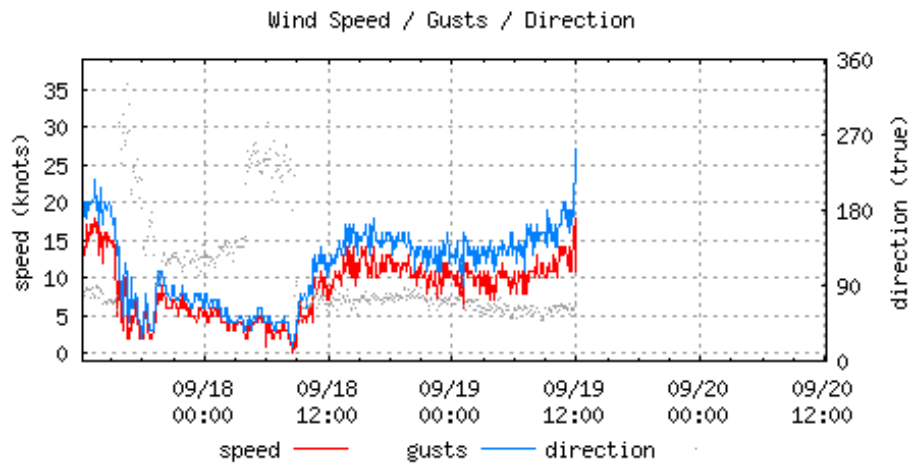
Last Observed Sample: 09/19/2017 12:00 (AST). Data relative to MHHW

Observed: -0.67 ft. Predicted: -0.93 ft. Residual: 0.26 ft.

Historical Maximum Water Level: Sep 18 1989, 2.77 ft.

Next High Tide: 09/19/2017 20:42 (AST), 0.17 ft.

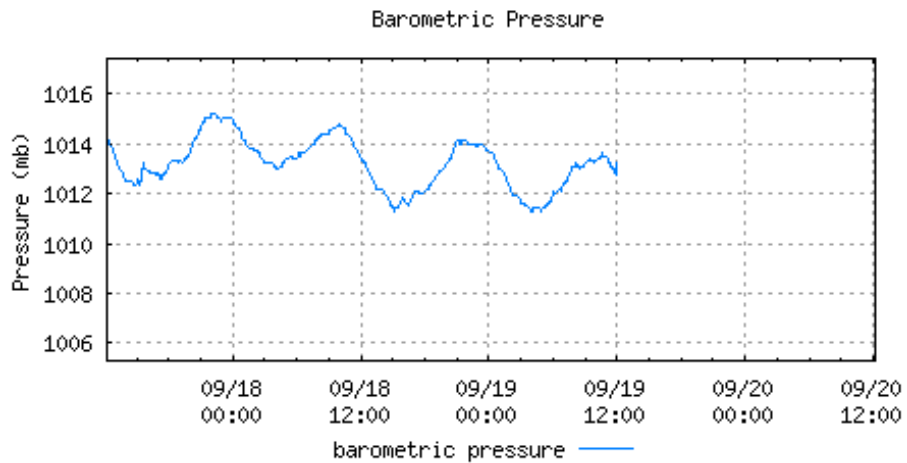
NOAA/NOS/CO-OPS 9755371 San Juan, La Puntilla, San Juan Bay, PR



Last Observed Sample: 09/19/2017 12:00 (AST)

Wind Speed: 11 knots Gusts: 27 knots Direction: 70° T

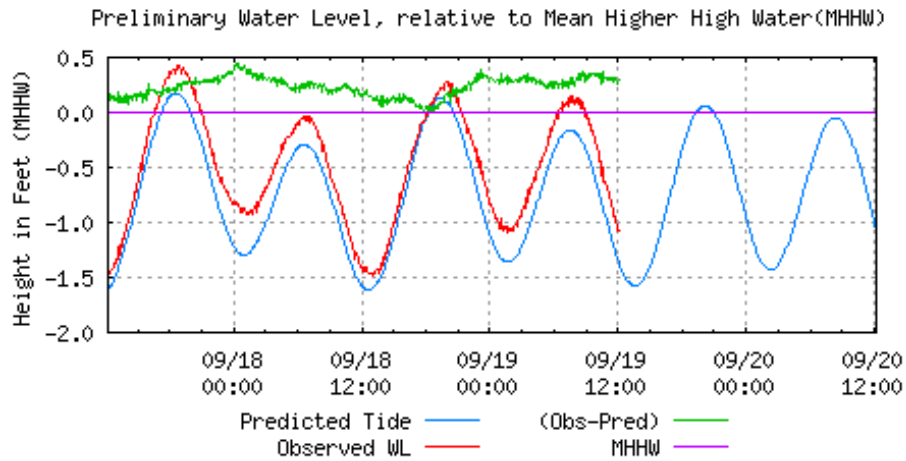
NOAA/NOS/CO-OPS 9755371 San Juan, La Puntilla, San Juan Bay, PR



Last Observed Sample: 09/19/2017 12:00 (AST)

Barometric Pressure: 1012.7 mb

NOAA/NOS/CO-OPS 9757809 Arecibo, PR



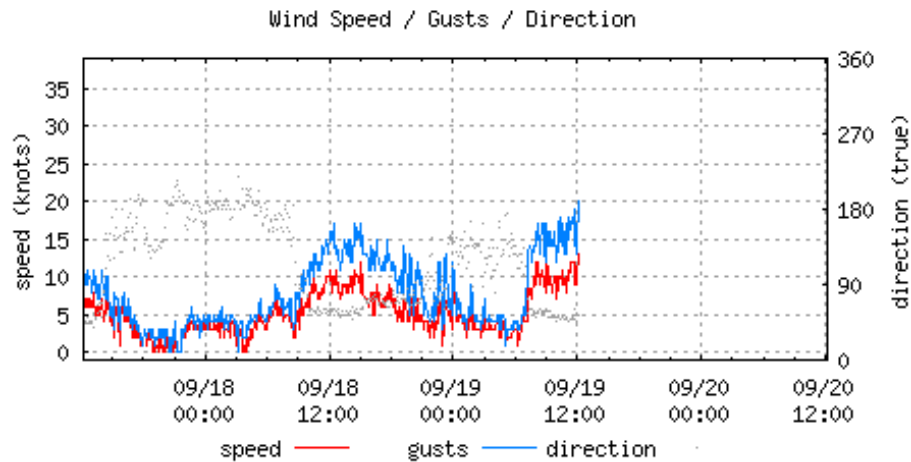
Last Observed Sample: 09/19/2017 12:06 (AST). Data relative to MHHW

Observed: -1.07 ft. Predicted: -1.37 ft. Residual: 0.30 ft.

Historical Maximum Water Level: Oct 8 2010, 0.90 ft.

Next High Tide: 09/19/2017 20:09 (AST), 0.06 ft.

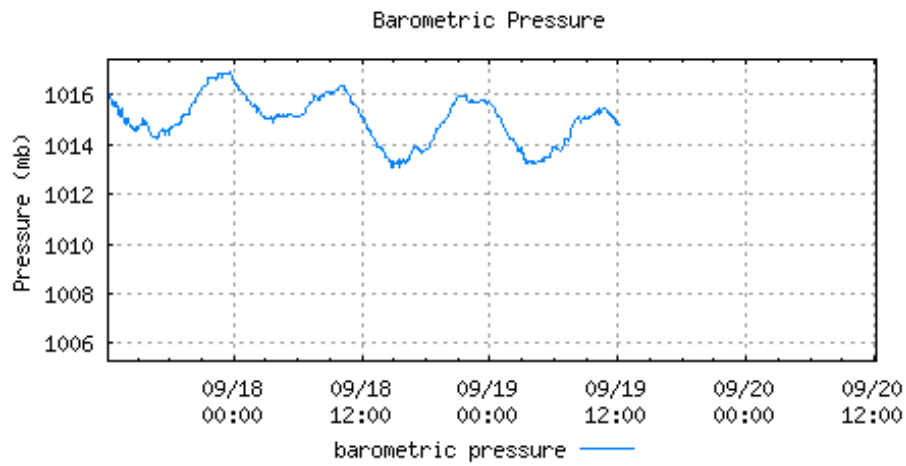
NOAA/NOS/CO-OPS 9757809 Arecibo, PR



Last Observed Sample: 09/19/2017 12:06 (AST)

Wind Speed: 13 knots Gusts: 20 knots Direction: 53° T

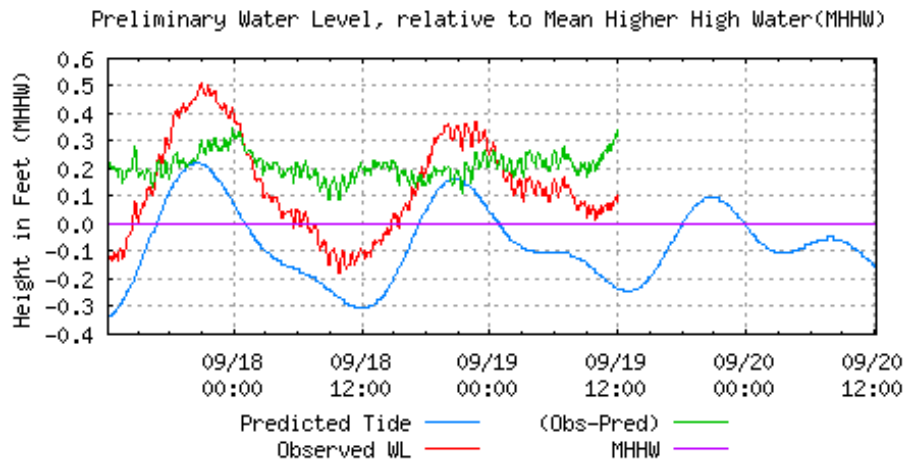
NOAA/NOS/CO-OPS 9757809 Arecibo, PR



Last Observed Sample: 09/19/2017 12:06 (AST)

Barometric Pressure: 1014.8 mb

NOAA/NOS/CO-OPS 9759110 Magueyes Island, PR



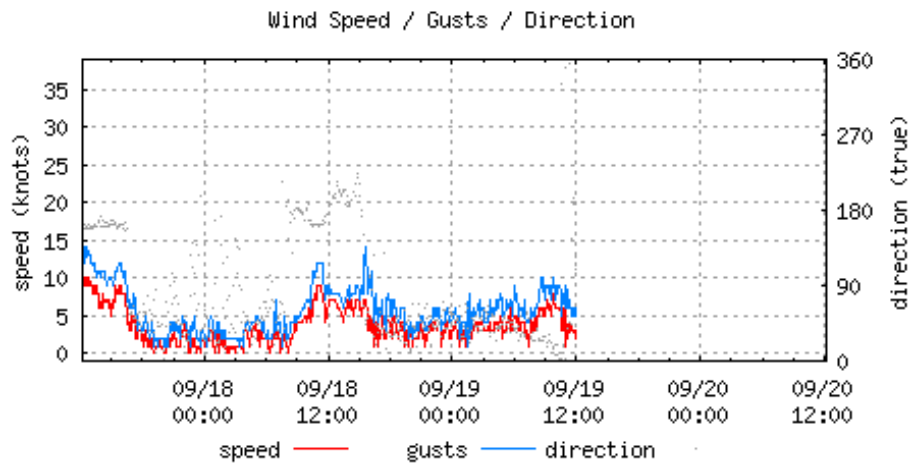
Last Observed Sample: 09/19/2017 12:00 (AST). Data relative to MHHW

Observed: 0.08 ft. Predicted: -0.24 ft. Residual: 0.32 ft.

Historical Maximum Water Level: Aug 31 1979, 1.96 ft.

Next High Tide: 09/19/2017 20:46 (AST), 0.09 ft.

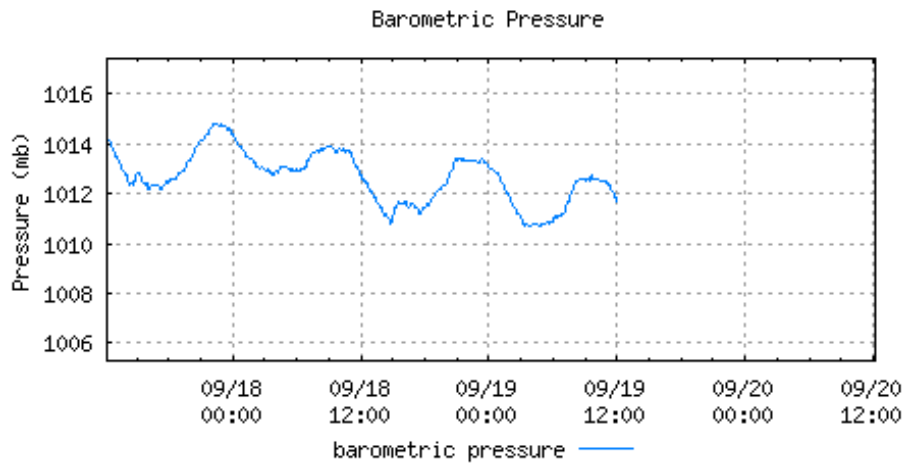
NOAA/NOS/CO-OPS 9759110 Magueyes Island, PR



Last Observed Sample: 09/19/2017 12:00 (AST)

Wind Speed: 3 knots Gusts: 5 knots Direction: 123° T

NOAA/NOS/CO-OPS 9759110 Magueyes Island, PR

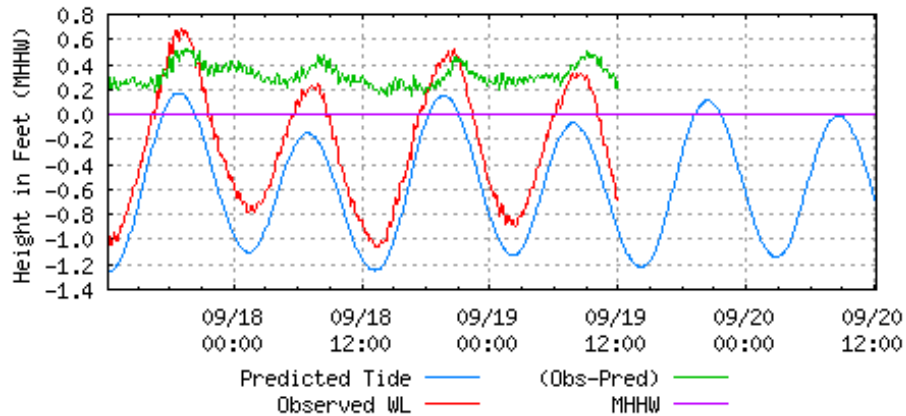


Last Observed Sample: 09/19/2017 12:00 (AST)

Barometric Pressure: 1011.7 mb

NOAA/NOS/CO-OPS 9759394 Mayaguez, PR

Preliminary Water Level, relative to Mean Higher High Water (MHHW)



Last Observed Sample: 09/19/2017 12:00 (AST). Data relative to MHHW

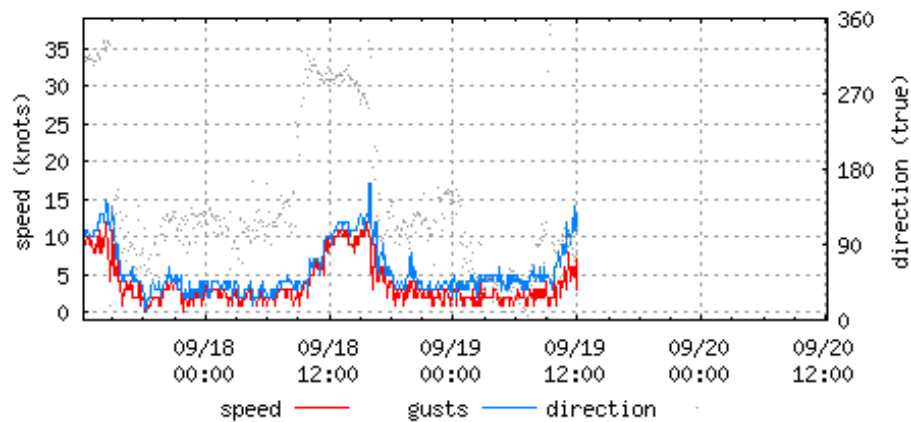
Observed: -0.67 ft. Predicted: -0.93 ft. Residual: 0.26 ft.

Historical Maximum Water Level: Oct 1 2015, 0.99 ft.

Next High Tide: 09/19/2017 20:24 (AST), 0.11 ft.

NOAA/NOS/CO-OPS 9759394 Mayaguez, PR

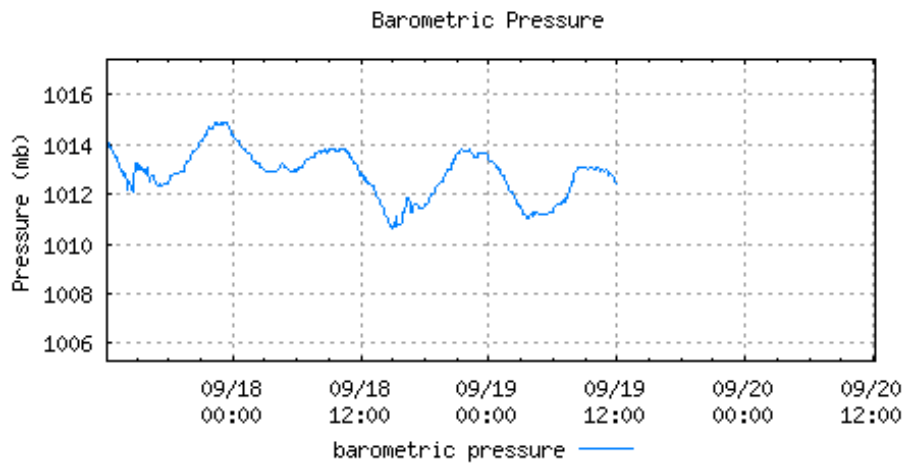
Wind Speed / Gusts / Direction



Last Observed Sample: 09/19/2017 12:00 (AST)

Wind Speed: 7 knots Gusts: 11 knots Direction: 110° T

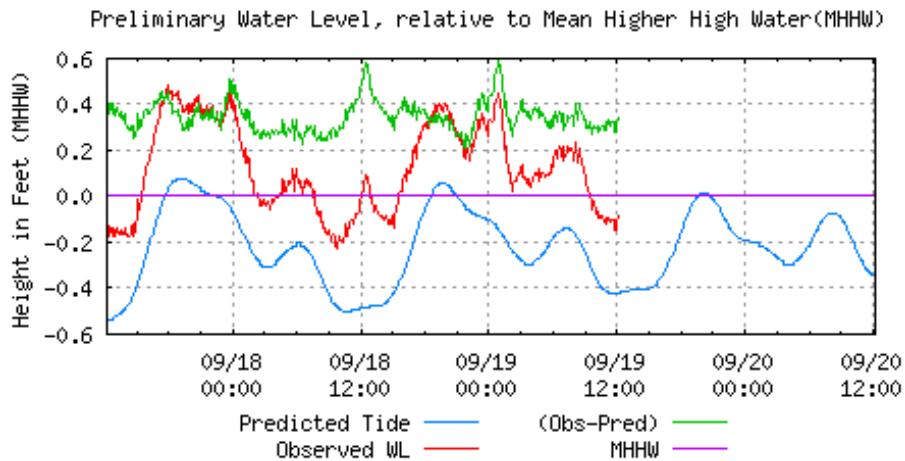
NOAA/NOS/CO-OPS 9759394 Mayaguez, PR



Last Observed Sample: 09/19/2017 12:00 (AST)

Barometric Pressure: 1012.4 mb

NOAA/NOS/CO-OPS 9759938 Mona Island, PR



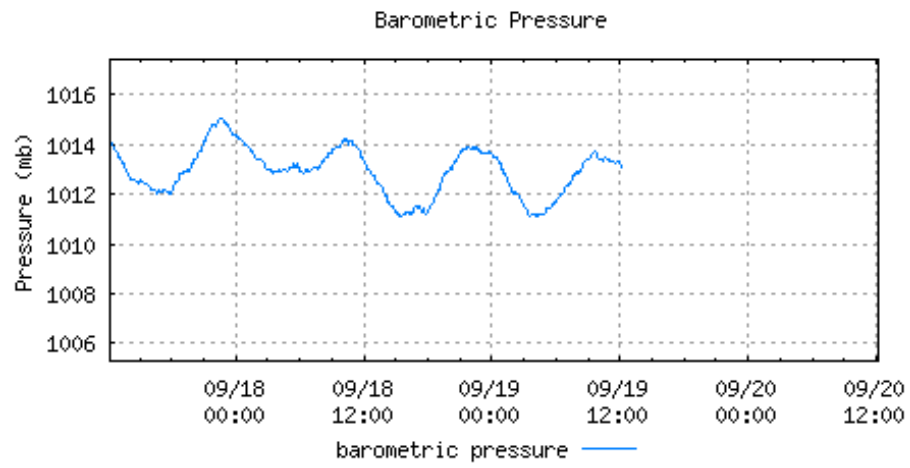
Last Observed Sample: 09/19/2017 12:06 (AST). Data relative to MHHW

Observed: -0.08 ft. Predicted: -0.42 ft. Residual: 0.34 ft.

Historical Maximum Water Level: Dec 23 2010, 1.24 ft.

Next High Tide: 09/19/2017 20:10 (AST), 0.02 ft.

NOAA/NOS/CO-OPS 9759938 Mona Island, PR



Last Observed Sample: 09/19/2017 12:06 (AST)

Barometric Pressure: 1013.1 mb

Latest Water Level Observations on MHHW

Station ID	Station Name	Date/Time	Observed Water Level	Predicted Tide	Residual Water Level	24 Hour Maximum Storm Tide
9761115	Barbuda	09/19/2017 12:00 (AST)	-0.12 ft	-0.47 ft	0.35 ft	0.50 ft
9751364	Christiansted Harbor, St Croix, VI	09/19/2017 12:00 (AST)	0.10 ft	-0.41 ft	0.51 ft	0.44 ft
9751401	Lime Tree Bay, St. Croix, VI	09/19/2017 12:00 (AST)	0.00 ft	-0.31 ft	0.31 ft	0.38 ft
9751381	Lameshur Bay, St John, VI	09/19/2017 12:06 (AST)	0.43 ft	-0.39 ft	0.82 ft	0.93 ft
9752235	Culebra, PR	09/19/2017 12:00 (AST)	-0.28 ft	-0.68 ft	0.40 ft	0.45 ft
9752695	Esperanza, Vieques Island, PR	09/19/2017 12:06 (AST)	-0.04 ft	-0.39 ft	0.35 ft	0.34 ft
9752619	Isabel Segunda, Vieques Island, PR	09/19/2017 12:06 (AST)	-0.38 ft	-0.85 ft	0.47 ft	0.47 ft
9753216	Fajardo, PR	09/19/2017 12:06 (AST)	-0.66 ft	-1.12 ft	0.46 ft	0.50 ft
9754228	Yabucoa Harbor, PR	09/19/2017 12:06 (AST)	-0.05 ft	-0.35 ft	0.30 ft	0.40 ft
9755371	San Juan, La Puntilla, San Juan Bay, PR	09/19/2017 12:00 (AST)	-0.67 ft	-0.93 ft	0.26 ft	0.25 ft
9757809	Arecibo, PR	09/19/2017 12:06 (AST)	-1.07 ft	-1.37 ft	0.30 ft	0.27 ft
9759110	Magueyes Island, PR	09/19/2017 12:00 (AST)	0.08 ft	-0.24 ft	0.32 ft	0.37 ft
9759394	Mayaguez, PR	09/19/2017 12:00 (AST)	-0.67 ft	-0.93 ft	0.26 ft	0.53 ft
9759938	Mona Island, PR	09/19/2017 12:06 (AST)	-0.08 ft	-0.42 ft	0.34 ft	0.45 ft

Center for Operational Oceanographic Products & Services (CO-OPS) | National Ocean Service (NOS)  
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